Examiner's Amendment

Authorization for this examiner's amendment was given in a telephone interview with Timothy J. Bechen, reg. no. 48,126 on October 7th, 2008. During the interview, Applicant agrees to amend the specification and claims according to the Examiner's Amendment.

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

The application is amended as follows:

Claims

1. (Currently amended) A URL resolution system for resolving Universal Resource Locators (URLs), the URL resolution system comprising:

a processing device executing a website crawler, ~~executed on a processing device, operative to;~~ wherein the website crawler crawling [crawl] a website comprising one or more webpages and locating ~~locate~~ and selecting ~~select~~ script code that possesses one or more specific portions which are used by web browsers to dynamically create one or more script URLs, and crawling [crawl] individual web pages associated with the website, the website crawler comprises: a crawling controller ~~operative to: receive~~ receiving results of script code examination from a script URL resolution component, controlling ~~control~~ the website crawler based on the examination results, wherein the examination results include a script URL when a script code examination is successful, controlling ~~control~~ the web crawler to crawl a web page identified by the script URL, controlling ~~control~~ the website crawler to crawl multiple web pages in parallel and ~~receive~~ receiving user input to define crawling parameters; and

the processing device executing a script URL resolution component, ~~executed on, operative to load~~ wherein the script URL resolution component loading said one or more webpages, examining ~~examine~~ said one or more specific portions of the script code selected during the crawling which are used by web browsers to dynamically create one or more script

URLs, executing ~~execute~~ said one or more selected portions of the script code to obtain said one or more script URLs, and resolving ~~resolve~~ the script URLs based on the execution; the processing device executing a presentation unit comprising: wherein the presentation unit comprising an email;
the presentation unit further presenting the examination results to users, the examination result including a failure result.

2. (Cancelled)

3. (Currently Amended) The URL resolution system as claimed in claim 1 wherein the website crawler has a script code detector for determining if a web page uses script code to dynamically create one or more script URLs.

4. (Previously Presented) The URL resolution system as claimed in claim 3 wherein the script code detector has a notification generating function for generating a notification when the script code detector locates a web page that uses script code to dynamically create one or more script URLs.

5. (Cancelled)

6. (Cancelled)

7. (Cancelled)

8. (Currently Amended) The URL resolution system as claimed in claim 1 wherein the crawling controller controls the website crawler to crawl the web page identified by the script URL immediately.

9. (Currently Amended) The URL resolution system as claimed in claim 1 wherein the crawling controller controls the website crawler to queue the web page identified by the script URL for crawling at a later time.

10. (Cancelled)

11. (Previously Presented) The URL resolution system as claimed in claim 1 wherein the script URL resolution component comprises: a web page loading controller ~~operative to~~ instructing ~~instruct~~ a web page examiner to load the web page located by the website crawler; and a script code execution controller ~~operative to~~ instructing ~~instruct~~ the web page examiner to

execute said specific portions of the script code used in the loaded web page to obtain said one or more script URLs.

12. (Previously Presented) The URL resolution system as claimed in claim 11 wherein the URL resolution system includes the web page examiner.

13. (Previously Presented) The URL resolution system as claimed in claim 11 wherein the script code execution controller uses an execution function of the web page examiner to execute the specific part of the script code.

14. (Currently Amended) The URL resolution system as claimed in claim 1 wherein the script code detector generates a notification when it locates a web page that uses one or more specific portions of script code to dynamically create one or more script URLs; and a web page loading controller controls loading of the located web page in response to the notification received from the website crawler.

15. (Previously presented) The URL resolution system as claimed in claim 1 wherein the script URL resolution component outputs an execution result including the script URL when the execution of the script code is successful; and the website crawler performs crawling of a web page identified by the script URL.

16. (Cancelled)

17. (Previously Presented) The URL resolution system as claimed in claim 1 wherein the URL resolution system comprises a presentation unit to present the examination result to a user.

18. (Original) The URL resolution system as claimed in claim 1 wherein the script URL resolution component is provided as a part of the URL resolution system.

19. (Previously Presented) The URL resolution system as claimed in claim 1 wherein the script URL resolution component is provided as a part of the website crawler.

20. (Previously Presented) The URL resolution system as claimed in claim 11 wherein the website crawler includes the web page examiner.

21. (Previously Presented) The URL resolution system as claimed in claim 1 wherein the website has one or more web pages, and the script URL resolution component is a script URL gatherer for locating each URL contained in any of the web pages associated with the website and causing examination of a web page identified by each URL during the crawling to resolve script code contained in the web page to obtain one or more script URLs created by the script code.

22. (Previously Presented) The URL resolution system as claimed in claim 21 comprising an advanced web page examiner having: a web page loader for loading a web page identified by a URL received from the script URL gatherer; and a script code examiner for examining the loaded web page to resolve any script URL that is created by script code in the loaded web page.

23. (Previously Presented) The URL resolution system as claimed in claim 21 wherein the script code examiner selects and executes specific portions of the script code found in the loaded web page used to dynamically create one or more script URLs, and returns said one or more script URLs to the script URL gatherer.

24. (Previously Presented) The URL resolution system as claimed in claim 22 wherein the advanced web page examiner is provided as a part of the URL resolution system.

25. (Previously Presented) The URL resolution system as claimed in claim 22 wherein the website crawler comprises a script code detector for detecting a web page that uses script code to create at least one script URL; and the script URL gatherer sends to the advanced web page examiner a URL of the web page detected by the script code detector.

26. (Currently amended) A method for resolving Universal Resource Locators (URLs), the method comprising steps of:
electronically receiving user input defining crawling parameters; electronically crawling a website comprising one or more webpages in response to the defined crawling parameters; electronically locating and selecting script code that possess one or more specific portions which are used by web browsers to dynamically create one or more script URLs, and further selecting one or more specific portions of said script code which creates one or more script URLs by locating a web page of the website, which uses script code to dynamically create one or more script URLs; electronically loading said one or more web pages, electronically examining said one or more specific portions of the script code selected during the crawling which are used by web browsers to dynamically create one or more script URLs;
electronically executing the one or more selected portions of the script code by instructing a web page examiner to execute the specific part of the script code to obtain said one or more script URLs; electronically resolving the script URLs based on the execution; electronically crawling of a web page identified by the script URL in parallel to crawling of other web pages; electronically obtaining examination results including said one or more script URLs when the examination step is successful and a failure result when the examination step fails to obtain said one or more script URLs; and electronically presenting to a user <u>in an email</u> the examination result including said one or more script URLs and[[/or]] the failure result.

27. (Cancelled)

28. (Cancelled)

29. (Cancelled)

30. (Cancelled)

31. (Cancelled)

32. (Cancelled)

33. (Currently Amended) The method as claimed in claim 26 wherein the step of crawling of a web page comprises a step of crawling the web page identified by the script URL immediately.

34. (Cancelled)

35. (Currently Amended) The method as claimed in claim 26 wherein the step of crawling of a web page comprises steps of queuing the web page identified by the script URL; and crawling the queued web page at a later time.

36. (Currently Amended) The method as claimed in claim 26 wherein the step of locating script code comprises steps o£ finding a URL in the web pages; and examining a web page identified by the URL to locate script code in the web page identified by the URL.

37. (Previously Presented) The method as claimed in claim 36 comprising the additional step of selecting a web page that contains script code that is used to dynamically create one or more script URL, and wherein the examining step examines the selected web page.

38. (Cancelled)

39. (Cancelled)

40. (Cancelled)

41. (Cancelled)

42. (Cancelled)

43. (Currently Amended) The URL resolution system as claimed in claim 26 wherein script URL resolution component identifies said one or more script URLs by executing said portions of said script code used to dynamically create one or more script URLs.

44. (Cancelled)

Reason for Allowance

The following is an examiner's statement of reasons for allowance:

1. None of the prior art of records teach or suggest in combination:

A URL resolution system for resolving Universal Resource Locators (URLs), the URL resolution system comprising:

a processing device executing a website crawler, wherein the website crawler crawling a website comprising one or more webpages and locating and selecting script code that possesses one or more specific portions which are used by web browsers to dynamically create one or more script URLs, and crawling individual web pages associated with the website, the website crawler comprises: a crawling receiving results of script code examination from a script URL resolution component, controlling the website crawler based on the examination results, wherein the examination results include a script URL when a script code examination is successful, controlling the web crawler to crawl a web page identified by the script URL, controlling the website crawler to crawl multiple web pages in parallel and receiving user input to define crawling parameters; and

the processing device executing a script URL resolution component, wherein the script URL resolution component loading said one or more webpages, examining said one or more specific portions of the script code selected during the crawling which are used by web browsers to dynamically create one or more script URLs, executing said one or more selected portions of the script code to obtain said one or more script URLs, and resolving the script URLs based on the execution; the processing device executing a presentation unit comprising: wherein the presentation unit comprising an email;

the presentation unit further presenting the examination results to users, the examination result including a failure result.

2. Any inquiry concerning this communication or earlier communications from the examiner should be directed to KAREN C. TANG whose telephone number is (571)272-3116. The examiner can normally be reached on M-F 7 - 5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Follansbee can be reached on (571)272-3964. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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